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FERRY SERVICE SURVEY
ON
UPPER GREAT LAKES

GREAT LAKES-SAINT LAWRENCE
SEAWAY NAVIGATION SEASON
EXTENSION PROGRAM

~~1980~~ 1979

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SYNOPSIS

There are three major ferry areas in the five surveyed reaches of the Upper Great Lakes:

Reach No. 2 - Straits of Mackinac - St. Marys River

Currently, three (3) ferry courses remain open during the winter months and operate twelve months of the year. They are:

1. Sugar Island Ferry (Bubbler-Flusher Assist)
2. Drummond Island Ferry (Ice Breaker - by request)
3. St. Ignace-Mackinaw Ferry (Ice Breaker - by request).

(R.R. Ferry - Chief Wawatam)

Two services--one to Neebish Island and the other to Lime Island--do not operate on winter schedules. Currently, the Neebish Island Ferry shuts down during winter months when the West Neebish channel is closed off to shipping and freezes over. If the West Neebish channel is opened to downbound traffic during winter months, the ferry service will, most likely, be resumed. The Lime Island to mainland ferry service is maintained by a fuel supply company located on Lime Island; it is used to carry employees back and forth, except during freeze-up, when an air boat is intermittently employed (demonstration program activity).

Reach No. 3 - Alpena - Monroe, Michigan

Ferry services in this reach are located in the St. Clair River and Detroit River. These rivers do not have solid ice cover during the winter months. The services operate twelve months of the year with ice breaker help, by request. The ferry services are located as follows:

- (1) Port Huron - Sarnia
(R. R. car Tug-Barge - C. & O. R. R.)
- (2) Marine City - Sombra
(Passenger Car, Dalgety & Dean Co.)
- (3) Roberts Landing - Port Lambton
(Passenger Car, Jillson Bros.)
- (4) Algonac - Harsens Island
(Passenger car, Champion Ferry Service)
- (5) Algonac - Russells Island - Walpole Island
(Passenger Car, Dean Bros.)
- (6) R. R. car Tug-Barge - U. S. A. to Canada
(Grand Trunk R. R. - near Detroit-Windsor Tunnel)
- (7) R. R. car - Tug - Barge - U. S. A. to Canada
(Norfolk and Western R. R. - near Ambassador Bridge)

Reach No. 4 - Monroe, Mich. - Cleveland, Ohio

The thirteen (13) ferries in the Lake Erie Island complex do not operate during the winter months. The ferries are all under 100 Gross Reg. Tons, except the Pelee Islander, which is 334 G.T. The area has sufficient ice cover to prevent operation of light-weight vessels. Historically, people of the islands resort to air and "over-ice" travel during the winter months.

GREAT LAKES AND ST. LAWRENCE SEAWAY
NAVIGATION SEASON EXTENSION PROGRAM
CARFERRIES ON THE UPPER GREAT LAKES

Introduction

A preliminary survey was made of carferry operations in the Upper Great Lakes, from lower Lake Superior to Buffalo, New York. The areas surveyed are outlined in inclosure No. 1. The Canadian side of the lakes and connecting rivers was not included. Source information was gleaned from "Greenwoods", "Great Lakes Pilot," telecommunications with U. S. Coast Guard Zones, "in-house" reference material and operations, "Oil Can," "Taconite" and "Coal Shovel." Information pertaining to the various upper Great Lakes reaches is listed below:

Reach #1 - Lake Michigan

This reach includes the greater part of Lake Michigan to a meeting line, north, with Reach #2 (Ref. incl. No. 1). In the main, this reach is devoid of small car ferries, under 100 gross tons, except the "Gills Rock - Washington Island operation" which functions mainly during the summer and tourist season. (On occasion, and when in the area, a Coast Guard Ice Breaker has provided open water.) The large car-passenger ferries (3,000-4,000 gross tons) operate twelve months of the year and at times operate as ice breakers. Lake Michigan in the

Reach #1 - continued

"cross lake" lanes, between Frankfort, Michigan and Milwaukee, Wisconsin latitudes, is open water during the year with some "pile-up," occasionally, of ice on the eastern shoreline with high westerly winds. This "pile-up" is relieved by ice breakers to maintain traffic. Further information on this reach is contained in inclosure No. 2.

GENERAL INFORMATION

1. Short Run Ferry Services

(a) Gills Rock - Washington Island

(1) Voyager - 100 Gross Tons - Washington Island Ferry Lines - Try to run one (1) ferry during winter months. ICING PROBLEM. Pres.: Arnie Richter.

(2) C. G. Richter - 100 Gross Tons and under.

(3) Eyrabakki - 100 Gross Tons and under.

(b) Washington Island-Rock Island

(1) Any of the above ferries - operated during tourist season - summer

2. Green Bay

Big Coal Docks at City of Green Bay. Huron Cement operates shipping in and out of Green Bay - minimum shipping is interrupted when the Bay ices over during winter months.

3. A revised and upgraded ferry service between Muskegon and Milwaukee is in an evaluation stage thru the West Michigan

Reach #1 - continued

Shoreline Regional Development Commission.

NOTE: No information was forthcoming on Package Freight Vessels.

Reach #2 - Straits Area - St. Marys River

The Straits of Mackinac and the St. Marys River area have a major network of small ferry and package freight services. The greater part of this service stops during the months of January, February and March. The Chief Wawatam, a railroad car ferry (2,990 Gross Tons), operates year around between St. Ignace and Mackinaw City. A large number of combination package-passenger freighters ply these waters during "open water" seasons. Historically, freight is shipped and stock-piled during the "open water" period in preparation for the winter three month "lay-up". After "freeze-up," passenger transportation is maintained by snowmobile, aircraft and pedestrianism. In the St. Marys River section of the area, ferry services to Sugar Island, Neebish Island, Lime Island and Drummond Island are being evaluated during the winter months. Operation of a "beefed-up" ferry and maintenance of an open water course at Sugar Island is in the observation phase. A similar situation exists at Drummond Island without added ferry power and hull reinforcement. Operation of the ferry at Neebish Island is contingent to maintenance of an ice bridge and unobstruction of the open water ferry course. Movement of vessels during winter months is limited to the

Reach #2 - continued

east channel at Neebish Island. Service is maintained year around at Lime Island through use of a small power boat in the ice-free season and an air boat during the winter months.

The Beaver Island Boat Co. provides service, with two ferries, between the island and Charlevoix, from April through December; no winter service is maintained. Inclosure No. 1 shows the extent of Reach #2. Inclosure No. 3 is a table of Ferries and Package-Passenger Freighters.

GENERAL INFORMATION

Ferries - 24 (23-100 G.T. and under; 1 - Chief Wawatam - 2,990.)

Period of Operation - March through December, except operations at Sugar Island, Drummond Island, and Chief Wawatam, which are scheduled for 12 months' operations.

Season (Heavy) - 2 months - July and August (about 50% of total traffic.)

Season (Light) - Remainder of operation year (50% and less).

Reach #3 - Alpena - Monroe, Michigan

Reach No. 3 runs from Alpena, Michigan to Monroe, Michigan. Ferry services are found in the St. Clair and Detroit Rivers. The St. Clair River services start at Port Huron with a railroad car Tug-Barge operated by the C. & O. R.R. between Port Huron and Sarnia. The next service down river is between Marine City and Sombra, where one (1) passenger-car ferry is in operation. Between Roberts Landing and Port Lambton three (3) passenger-car ferries are operated by the Jillson Bros. Champion Ferry Service has four (4) passenger-car ferries running between Algonac and Harsens Island. The Dean Bros. operate the "Pride of the Lake" between Algonac, Russells Island and Walpole Island. In the Detroit River there are two R.R. car Tug-Barge operations, one operated by the Grand Trunk R.R., in the vicinity of the Detroit-Windsor Tunnel, and the other by the Norfolk and Western R.R. near the Ambassador Bridge. In both operations railroad cars are barged across the river to either the United States or Canada. The St. Clair River and Detroit River ferries operate twelve (12) months of the year, with occasional ice-breaker help. Ice-breaker help is particularly needed in the St. Clair River, at the head of Russells Island. Inclosure No. 1 shows the location of Reach No. 3. Ferry location information is in the tables of Inclosure No. 4.

Reach #4 - Monroe, Mich. - Cleveland, Ohio

Ferry operation in Reach No. 4 is limited to the Lake Erie Island area. Five companies provide passenger-auto ferry service during the open water seasons. Services provided are as follows:

<u>Company</u>	<u>Service</u>
Neuman Boat Line, Inc. Foot of Columbus Avenue P. O. Box 604 Sandusky, Ohio 44870	Sandusky, Kelley's Island, Marblehead, N. Bass Island, S. Bass Island and Middle Bass Island
Parker Boat Line, Inc. Put-In-Bay, Ohio 43456	Sandusky, Port Clinton, S. Bass Island, N. Bass Island, and Middle Bass Island
Cedar Point Transportation Co. Sandusky, Ohio 44870	Sandusky - Cedar Point
Miller Boat Line Put-In-Bay, Ohio 43456 (some indication of liquidation)	Catawba Island, S. Bass and Middle Bass Islands
Pelee Shipping Co. 669 Talbot Street St. Thomas, Ontario, Canada	Sandusky, Pelee Island and Ontario, Canada

Inclosure No. 5 is a table of pertinent information on ferries of the area.

The ferries of the Lake Erie Island area operate during the open water seasons. When solid ice forms the ferries shut down. Airplane service continues during the winter months. Historically, stock-piling for winter months is done before ferry shut-down. In addition to air

Reach #4 - continued

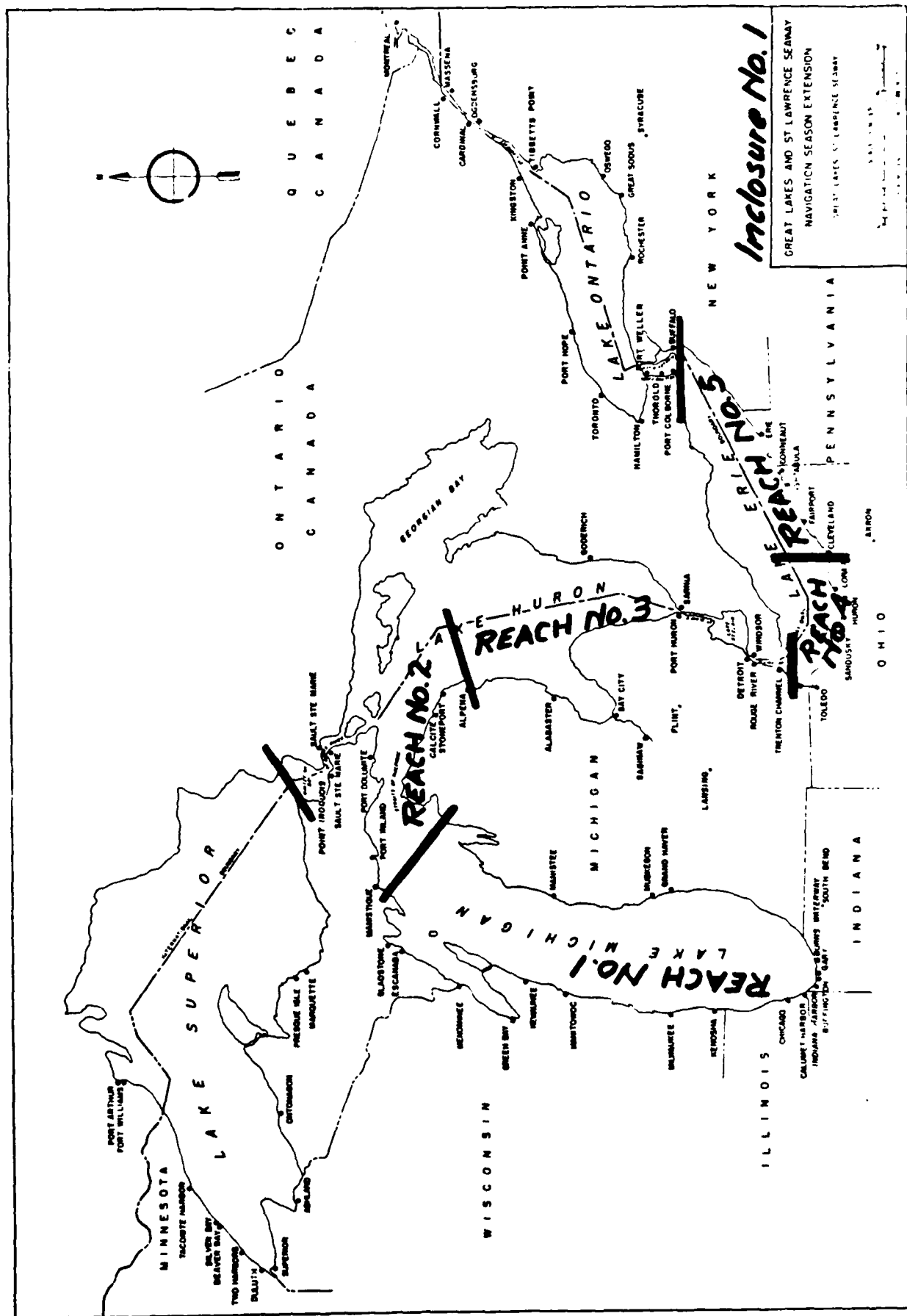
service, communications are maintained over ice by snowmobile, pedestrianism, etc. The importance of maintaining ice cover during winter months is emphasized by U. S. Coast Guard action to warn the people of any ice-breaking procedures in the South Passage.

Inclosure No. 1 indicates Reach No. 4. Inclosure No. 6 shows the Lake Erie Island area with courses of the various ferries.

Reach #5 - Cleveland, Ohio - Buffalo, N. Y.

The reach from Cleveland to Buffalo, New York has no ferries, according to "in-house" and other reported sources of information. Oil tank barges move in and out of ports along the shoreline in open water. The tanker, "Laduca" operates in Buffalo Harbor. No specific icing problems have been reported.

Reach No. 5 is shown in Inclosure No. 1. As no ferries were located within the reach, a table inclosure is not included.



REACH NO. 1 - LAKE MICHIGAN

Vessel	Gross Reg. Tons	Net Reg. Tons	Keel	B. P.	Overall	Beam	Depth	Mid-Summer Draft	Inter-mediate Draft	Winter Draft	Auto Cana-city	Rail Car Cana-city	Passenger City	Ferry Course
Atkinson, Arthur K.	3,241	1,826	372'0"	372'0"	384'0"	56'0"	20'6"	14'11"	14'11"	14'11"	10	28	112	Kewaunee Inspected for Frankfort-Manitowoc/further service Harbor Icing problem Ann Arbor R. R.
Badger	4,244	2,033	388'0"	388'0"	410'6"	59'6"	24'0"	18'7"	18'7"	18'7"	45	30	520	Ludington-Kewaunee / Manitowoc / C. & O. R. R. Milwaukee
City of Green Bay	3,250	1,833	364'6"	368'0"	380'0"	58'3"	25'0"	15'2-1/2"	15'2-1/2"	15'2-1/2"	8	28	350	"Layed-up" - not in service for 2 yrs - Ann Arbor R. R.
City of Midland	3,968	833	388'0"	388'0"	388'0"	406'0"	23'6"	18'7-1/2"	18'7-1/2"	18'7-1/2"	100	30	471	Ludington (Kewaunee) (Manitowoc) C. & O. R. R. (Milwaukee)
City of Milwaukee	2,942	1,498	347'9"	348'0"	360'0"	56'3"	21'6"	17'4"	17'4"	17'4"	None	26	16	Muskegon-Milwaukee-out of commission for 3 years - Wis. - Mich. Steam Co.
City of Saginaw 31	3,327	762	368'0"	368'0"	381'6"	57'0"	22'6"	18'3"	18'3"	18'3"	25	28	288	Scrapped - (burned)
Eyrarbakki	95	39	80'0"	82'6"	85'0"	35'6"	7'0"	5'3"	5'3"	5'3"	15	None	100	Gills Rock - Washington Island
Madison	2,942	1,488	347'9"	348'0"	360'0"	56'3"	21'6"	17'4"	17'4"	17'4"	None	26	16	Muskegon-Milwaukee-Grand Trunk RR
Pere Marquette 10	2,769	762	372'0"	372'0"	400'0"	53'0"	22'0"	16'0"	16'0"	16'0"	None	27	None	Toledo Dry Dock
Pere Marquette 21	3,558	1,953	388'0"	388'0"	400'0"	56'0"	21'6"	16'6"	16'6"	16'6"	23	30	132	Out of Service
Pere Marquette 22	3,551	1,925	388'0"	388'0"	400'0"	56'0"	21'6"	16'7-1/2"	16'7-1/2"	16'7-1/2"	23	30	205	Out of Service
Richier, C. G.	82	55	65'3"	65'3"	70'6"	25'0"	9'5"	8'5"	8'5"	8'5"	10	None	100	Gills Rock-Washington Island-/Running last year breaker series running on experiment (Milwaukee) / ment (Milwaukee) & O. R. R. (Kewaunee)
Spartan	4,244	2,033	388'0"	388'0"	410'6"	59'6"	24'0"	18'7"	18'7"	18'7"	45	30	520	Ludington-(Manitowoc) C. & O. R. R. (Kewaunee)
Viking B	2,713	1,287	347'9"	348'0"	360'0"	56'3"	21'6"	15'1-1/2"	15'1-1/2"	15'1-1/2"	7	26	350	Frankfort-(Kewaunee) Ann Arbor R. R. (Manitowoc)
Voyager	98	66	60'9"	63'3"	70'6"	45'0"	9'0"	8'0"	8'0"	8'0"	14	None	146	Gills Rock-Washington Island

REACH NO. 2 - STRAITS AREA - ST. MARY'S RIVER

Vessel	Gross Reg. Tons	Net Reg. Tons	Keel	B. P.	Overall	Beam	Depth	Mid-Summer Draft	Inter-mediate Draft	Winter Draft	Auto Capa-city	Rail Car Capa-city	Passenger Capa-city	Ferry Course
Algoma *	100													St. Ignace-Mackinaw Island-Arnold Line
Busy Bug	50													Cheboygan-Bois Blanc Island
Billy Dick *	100													Mackinaw City-Mackinaw Island
Beaver Islander	95	64	90'0"	90'0"	96'3"	27'6"	9'9"	7'3"	7'3"	7'3"	12	None	200	Charlesvoix-Beaver Island-Beaver Island Boat Co.
Chippewa *														St. Ignace-Mackinaw City - Arnold Lines
Chief Wawalam	2,980	1,793	332'0"	338'9"	351'0"	62'3"	25'0"	19'1"	19'1"	19'1"	None	22	8	St. Ignace-Mackinaw City-Railroad-Mackinaw Transportation
Christina-Mae *	100													Mackinaw City-Mackinaw Island-Straits Transportation
Charlie-Ann II														Cheboygan-Bois Blanc Island
Drummond Islander	84	57	50'6"	50'6"	64'0"	30'0"	8'3"	7'0"	7'0"	7'0"	8	None	50	Drummond Island-Tour Village
Drummond Islander II	97	66	60'6"	60'6"	85'0"	36'0"	9'0"	7'6"	7'6"	7'6"	11	None	175	Drummond Island-Tour Village
Emerald Isle *	100													St. Ignace-Mackinaw Island-Arnold Lines
Ethel-Marie *	100													Mackinaw City-Mackinaw Island
Felicity *	100													Mackinaw City-Mackinaw Island
Huron *	100													St. Ignace-Mackinaw Island-Arnold Lines
Island Princess *	100													Mackinaw City-Mackinaw Island-Straits Transportation

ENCLOSURE #2

REACH NO. 2 - STRAITS AREA - ST. MARYS RIVER
Page 2

Vessel	Gross Reg. Tons	Net Reg. Tons	B. P.	Overall	Beam	Depth	Mid-Summer Draft	Inter-mediate Draft	Winter Draft	Auto Capa-city	Rail Car Capa-city	Passenger Capa-city	Perity Course
Island Queen	90	50	71'0"	71'0"	34'9"	10'0"	7'0"	7'0"	7'0"	15	None	150	Mackinaw City-Mackinaw Island-Straits Transportation
Mackinaw Islander * 100													
Mohawk *	100												St. Ignace-Mackinaw Island-Arnold Lines
Miss Margie *	100												St. Ignace-Mackinaw Island-Arnold Lines
Neebish Islander	49	42	50'0"	50'6"	20'7"	6'0"	5'0"	5'0"	5'0"	5	None	20	Mackinaw City-Mackinaw Island
Ottawa *	100												Neebish Island-Mainland
South Shore	67	24	60'0"	60'0"	24'0"	9'6"	8'5"	8'5"	8'5"	8	None	280	St. Ignace-Mackinaw Island-Arnold Lines
Straits of Mackinac II	89	64	70'8"	70'8"	89'11"	27'0"	7'0"	7'0"	7'0"	None	None	500	Charlevoix-Beaver Island-Beaver Island Boat Co.
Sugar Island *	100		79'9"	79'9"	84'6"	6'9"	5'0"	5'0"	5'0"		None		Mackinaw City-Mackinaw Island
The Welcome *	100												St. Marie-Sugar Island
													Mackinaw City-Mackinaw Island

*Table information limited to 100 Gross Tons or less.

Arnold Lines - 7 Ferries (St. Ignace-Mackinaw Island) (Algoma, Chippewa, Emerald Isle, Huron, Mackinaw Islander, Mohawk and Ottawa)
 Sheplers, Inc. - 5 Ferries (Mackinaw City-Mackinaw Island) (Bally Duck, Edith-Marie, February, Miss Margie, The Welcome)
 Straits Transportation - 4 Ferries (Mackinaw City-Mackinaw Island) (Straits of Mackinac II, Island Princess, Island Queen and Christopher-Mac)
 Independents - 4

TOTAL 24

REACH NO. 3 - ALPENA - MONROE, MICH.

Vessel	Gross Reg. Tons	Net Reg. Tons	Keel	B. P.	Overall	Beam	Depth	Mid- Summer Draft	Inter- mediate Draft	Winter Draft	Auto Capa- city	Rail Car Capa- city	Pass- enger Capa- city	Ferry Course
R. Cassidy														
Champion	85	51	52'3"	52'3"	65'0"	29'0"	8'6"	7'4"	7'4"	7'4"	12	None	50	Detroit-Windsor (Car R. R. Barge- Tug-Norfolk & Western R. R. Algonac-Harsens Isle (Champion) (1)
Dallean (Can.)	145	99	63'0"	63'3"	75'0"	38'0"	8'0"	6'3"	6'3"	6'3"	12	None	125	Marine City-Sombra (Dalgaty + Dean)
Ontamichi	55	43	52'3"	52'3"	65'0"	29'0"	8'6"	6'9"	6'9"	6'9"	12	None	40	Roberts Landing-Port Lambton (Jillson Bros.)
F. A. Johnson														
Larry	37	33	49'6"	49'6"	54'0"	20'0"	5'0"	3'7"	3'7"	3'7"	6	None	40	Detroit-Windsor (R. R. Car-Tug- Barge)(Grand Trunk-Canadian National)
Lu	37	34	49'6"	49'6"	54'0"	20'0"	5'0"	3'7"	3'7"	3'7"	6	None	40	Roberts Landing-Port Lambton (Jillson Bros.) (St. Clair)
North Channel	67	46	62'0"	62'0"	75'0"	30'6"	8'0"	6'1"	6'1"	6'1"	12	None	100	Algonac-Harsens Isle (Champion) (2)
Pere Marquette	10 2,769	762	372'0"	372'0"	400'0"	53'0"	22'0"	16'0"	16'0"	16'0"	None	27	None	Converted to barge - Port Huron- Sarnia (C&O R. R. Car Ferry)
Pride of Lake *	100													Algonac-Russell-Walpole Islands (Deans)
St. Clair Flats	85	50	52'6"	52'6"	65'0"	29'0"	8'6"	7'4"	7'4"	7'4"	12	None	50	Algonac-Harsens Isle (Champion)(3)
South Channel *	100													Algonac-Harsens Isle (Champion)(4)

*Table information limited to 100 Gross Tons
on 10-1-1911.

Incl. #2

REACH NO. 4 - MONROE, MICH. - CLEVELAND, OHIO

Vessel	Gross Reg. Tons	Net Reg. Tons	Keel	B. P.	Overall	Beam	Depth	Mid-Summer Draft	Inter-mediate Draft	Winter Draft	Auto Capa-city	Rail Car Capa-city	Passenger Capa-city	Ferry Course
Challenger	70	48	60'9"	64'9"	70'0"	25'6"	10'0"	6'4"	6'4"	6'4"	9	None	250	Passenger service, including auto-mobiles, between Sandusky - Kelley's Island - Marblehead - North Bass Island - South Bass Island - Middle Bass Island
Commuter	81													
Corsair	13	8	61'9"	61'9"	64'6"	33'0"	9'0"	5'9"	5'9"	5'8"	9	None	155	
Kelley Islander	95	65	88'3"	88'3"	88'3"	100'0"	34'3"	8'0"	7'3"	7'3"	15	None	155	
Erie Islander	59													Passenger service, including auto-mobiles, between Sandusky - Port Clinton, South Bass Island, North Bass Island - Middle Bass Island
Yankee Clipper	14	10	60'0"	61'9"	70'0"	25'6"	7'6"	7'0"	7'0"	7'0"	10	None	150	
Cedar Point	12													Passenger service between Sandusky and Cedar Point
Cedar Point II	13													
Cedar Point III	12													
Put-In-Bay	92	62	60'3"	63'3"	64'9"	32'9"	9'4"	8'0"	8'0"	8'0"	10	None	150	Passenger service, including auto-mobiles, between Catawba Island and South Bass Island - Middle Bass Island
West Shore	94	63	60'3"	60'3"	64'9"	30'6"	9'3"	8'0"	8'0"	8'0"	9	None	244	
Miller, Wm. M.	96	65	60'3"	60'3"	64'9"	32'9"	9'9"	8'6"	8'6"	8'6"	9	None	260	
Pelee Islander	334													Passenger service, including auto-mobiles, between Sandusky - Pelee Island - Ontario (Kingsville - Leamington)

